

25-8410-1

**ELDRIDGE
ENGINEERING ASSOCIATES, INC.**

2625 Butterfield Road
OAK BROOK, ILLINOIS 60521

(312) 654-4790

TO ECOLOGY & ENVIRONMENT, INC.
223 W. JACKSON BLVD.
CHICAGO, IL 60606

US EPA RECORDS CENTER REGION 5



473226

IL-0300-17

LETTER OF TRANSMITTAL

Ref #3

DATE	11-29-84	JOB NO.	051-53, 171-53
ATTENTION	DAN COZZA		
RE:	WELL LOGS		
	REFERENCE #6		
	SITE NAME <u>MATTESON-SEXTON</u>		
	SITE ID <u>IL 0980606222</u>		

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- | | | | | |
|---|---------------------------------------|--------------------------------|----------------------------------|---|
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ | | |

COPIES	DATE	NO.	DESCRIPTION
1	7-74	4	WELL LOGS - 31ST STREET LANDFILL - (HINSDALE)
1	10-77	4	WELL LOGS - RICHTON PARK LANDFILL - (MATTESON)

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 19 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS

DAN -

IF YOU HAVE ANY QUESTIONS CONCERNING THESE
WELL LOGS, DO NOT HESITATE TO CALL US.

COPY TO _____

SIGNED: Mike Keil

D. Monitoring Well Installation Data

	6108			
Well Number	1 W	2 W	3 W	9 W
Date Installed	10/13/77.	10/14/77	10/14/77	10/6/77
Total Length Installed	51.0'	44.0'	36.0'	18.3'
Ht. Above Grade, Top	1.0'	1.0'	1.0'	1.3'
Well Pipe ID	4.0"	4.0"	4.0"	4.0"
Well Pipe Material	PVC Sch 40	PVC Sch 40	PVC Sch 40	PVC Sch 40
Well Screen Length	5.0'	4.0'	6.0'	7.0'
Well Screen Size	.020"	.020"	.020"	.020"
Ground Water Level*				
at installation	30.0'	Dry	25.0'	Dry
24 hours after install.	42.0'	Dry	23.0'	Dry

*Depth in feet from top of well to ground water surface.

E. Field Investigation

The wells were located in the field at locations stated by your representative. The wells were placed to depths as requested by the Illinois EPA letter of September 20, 1977. The well installation was started on October 6, 1977, and completed on October 14, 1977. A hollow stem auger (truck mounted) type of drilling rig was used to make the borings. Logs of wells were made by the driller in the field based upon auger cuttings from the bore hole. The soil types, consistency and thickness were recorded in the log, with ground water conditions also recorded. Logs of these wells are enclosed. The 4" PVC plastic pipe was lowered into the bore holes to the required depth. Well point screens were cut by hack saw with cuts on each side of the pipe at 2" intervals. The well point was backfilled with #2 torpedo sand to about a foot above the well point top. Bentonite-soil was backfilled to grade with the upper 5 feet being thoroughly tamped. The wells were pumped, and the rise in water recorded to test the wells. Dry wells were tested by slug testing, with water placed into the well and the drop in level recorded. Water quality test samples will be reported separately.

**Walter H. Flood
& Co., Inc.**

ENGINEERS

4421 HARRISON STREET
HILLISIDE, ILLINOIS 60162

7509 S. WESTNEDGE AVENUE
PORTAGE, MICHIGAN 49081

RIM ELEVATION = 733.58

SOIL BORING LOG NO.

1 W

6101

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

LOCATION:

Richton Park, Illinois

[illegible]

LEGEND: A—AUGER
ACR—AFTER CASING REMOVAL
AD—AFTER DRILLING
BCR—BEFORE CASING REMOVAL
C—CORE
DCI—DRY CAVE IN

DD—DRY DENSITY, LB. PER CU. FT.
DEPTH—FEET BELOW
GROUND SURFACE
FT—FISHTAIL
HA—HAND AUGER
HS—HOLLOW STEM AUGER

L—SAMPLE LENGTH
N—PENETRATION, BLOWS PER FT.
QU—UNCON. COMP. STRENGTH
LBS. PER SQ. FT.
R—LENGTH OF SAMP. RECOVERED
S—SAMPLE NUMBER

SS—SPLIT SPOON
ST—SHELBY TUBE
T—TYPE OF SAMPLE
WC—WATER CONTENT %
WCI—WET CAVE IN
WD—WHILE DRILLING
WO—WASHOUT

**Walter H. Flood
& Co., Inc.**

ENGINEERS

4421 HARRISON STREET
HILLSDALE, ILLINOIS 60162

7509 S. WESTNEDGE AVENUE
PORTAGE, MICHIGAN 49081

RIM ELEVATION = 729.75

SOIL BORING LOG NO.

2 W

6102

FOR: John Sexton Contractors Company

PROJECT: Solid Waste Management Facility

LOCATION: Richton Park, Illinois

METHOD OF BORING HS						WATER LEVEL READINGS		DRILLING DATA		BACKFILLING DATA	
S.S. O.D. 2" 140# HAMMER 30" DROP						Dry W.D.		DATE 10/13/77		DATE	
SHELBY TUBE SIZE						Dry B.C.R.		FOREMAN RF		BY	
CASING SIZE 45' - 3 1/4" IDHS						Dry A.C.R.		CREW NO. 2		METHOD	
CORE SIZE						Dry @ 24 HRS. A.D.		JOB NO. 74050138-5		GROUT	
						HRS. A.D.		VERT. SCALE 1" = 10'		QUANTITY	
DEPTH	S	T	N	LR	DD	DESCRIPTION		QU • LABORATORY X 1000 2 PSF 4		O PENETROMETER 6 8 10	
0.0						Ground surface					
1.5						Black loam					
						Brown to gray silty clay, trace of small gravel, very tough					

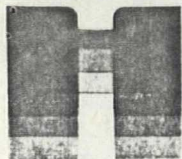
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LBS. PER SQ. FT.
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S—SAMPLE NUMBER

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WCI—WET CAVE IN
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**Walter H. Flood
& Co., Inc.**

ENGINEERS

4421 HARRISON STREET
HILLSDALE, ILLINOIS 60162
7509 S. WESTNEDGE AVENUE
PORTAGE, MICHIGAN 49081

RIM ELEVATION = 722.20

SOIL BORING LOG NO.

3 W

G103

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

LOCATION:

Richton Park, Illinois

METHOD OF BORING	HS	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
S.S. O.D. 2" 140# HAMMER 30" DROP		Dry W.D.	DATE 10/14/77	DATE
SHELBY TUBE SIZE		10' B.C.R.	FOREMAN RF	BY
CASING SIZE 40' - 3 3/4" IDHS		37' A.C.R.	CREW NO. 2	METHOD
CORE SIZE		23.0' @ 24 HRS. A.D.	JOB NO. 74050138-5	GROUT
		HRS. A.D.	VERT. SCALE 1" = 10'	QUANTITY

DEPTH	S	T	N	LR	DD	DESCRIPTION	QU • LABORATORY X 1000 PSF	O PENETROMETER
							2	4 6 8 10
0.0						Ground surface		
3.0						Black loam		
						Brown and gray silty clay, trace of small gravel, very tough		
35.0						Gray silty clay, trace of small gravel, occasional sand and silt seam, very tough		
40.0						End of boring		
						Note: 4" PVC pipe installed in this bore hole, see text for well installation data		
DEPTH	S	T	N	LR	DD	DESCRIPTION	10 20 30 40 50	WC ▲ NATURAL %

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**Walter H. Flood
& Co., Inc.**

ENGINEERS

4421 HARRISON STREET
HILLSDALE, ILLINOIS 60162

7509 S. WESTNEDGE AVENUE
PORTAGE, MICHIGAN 49081

RIM ELEVATION = 730.45

SOIL BORING LOG NO. 9 W

6108

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

LOCATION:

Richton Park, Illinois

METHOD OF BORINGHS						WATER LEVEL READINGS		DRILLING DATA		BACKFILLING DATA	
S.S. O.D. 2" 140# HAMMER 30" DROP						Dry W.D.		DATE 10/6/77		DATE	
SHELBY TUBE SIZE						Dry B.C.R.		FOREMAN RF		BY	
CASING SIZE 20' - 3 3/4" IDHS						Dry A.C.R.		CREW NO. 2		METHOD	
CORE SIZE						Dry @ 24 HRS. A.D.		JOB NO. 74050138-5		GROUT	
						HRS. A.D.		VERT. SCALE 1" = 10'		QUANTITY	
DEPTH	S	T	N	LR	DD	DESCRIPTION		QU ● LABORATORY X 1000 2 PSF		O PENETROMETER 4 6 8 10	
0.0						Ground surface					
1.5						Black loam					
						Brown and gray silty clay, trace of small gravel, very tough					
15.0						See note 1					
16.5						Gray silty clay, trace of small gravel, very tough					
20.0						End of boring					
						Note 1: Gray fine medium sand, some silt					
						Note: 4" PVC pipe installed this bore hole, see text for well installation data					
DEPTH	S	T	N	LR	DD	DESCRIPTION		10 20 30 40 50 WC ▲ NATURAL %			

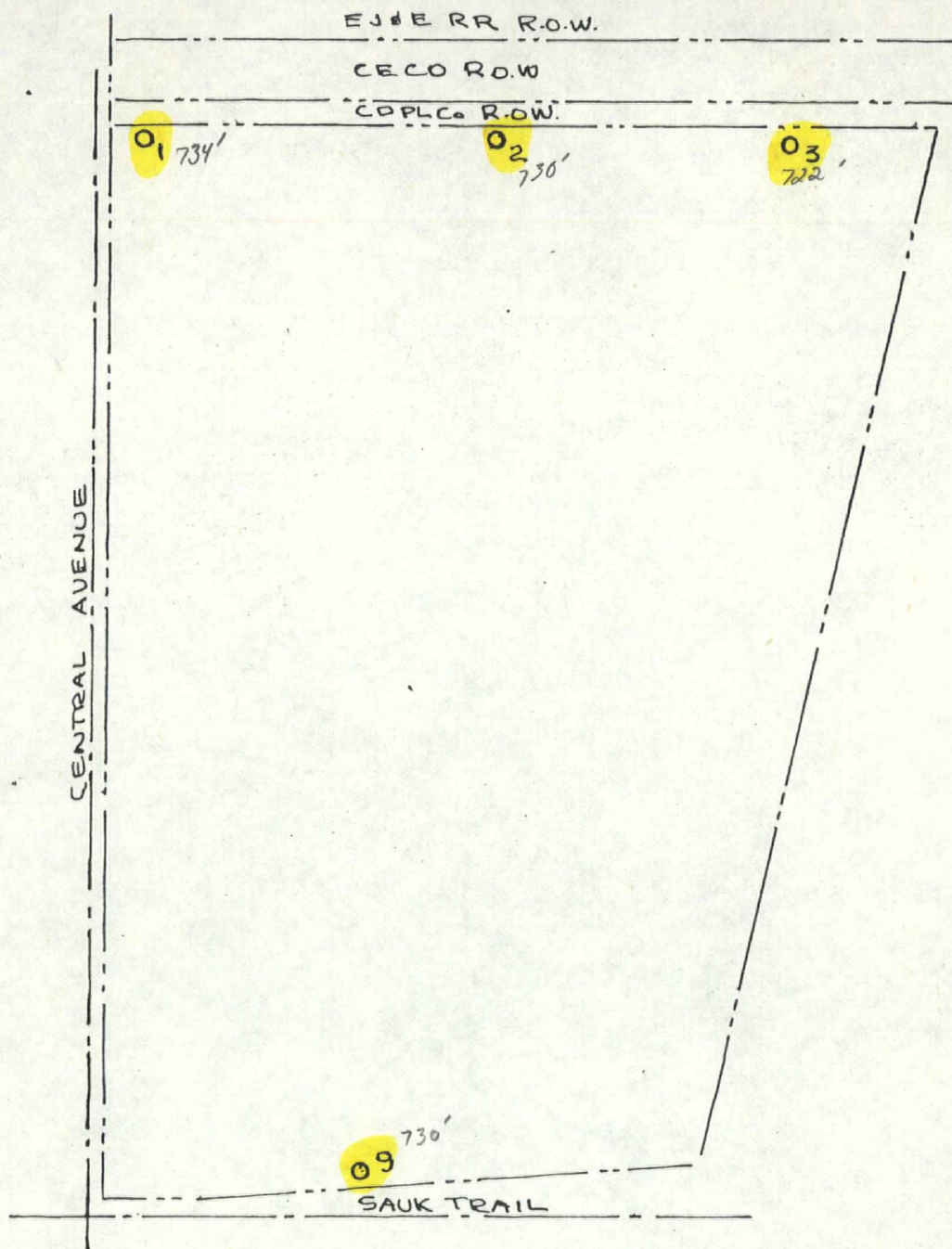
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NOTE:
 10 MONITOR WELL
 (LOCATION STAKED BY OTHERS)



MONITORING WELLS LOCATION DIAGRAM	
RICHTON PARK, ILLINOIS	
WALTER H. FLOOD & CO. INC.	
SCALE (1" = 400')	BY RJF
JOB / LAB NO. 77050152	DATE 8/15/77